

**Marvel-Schebler Aircraft  
Carburetors LLC**

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**Service Bulletin: SB-22**

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**SUBJECT: NEW FUEL NOZZLE – MARVEL-  
SCHEBLER® AIRCRAFT CARBURETORS**

1. **Applicability:** This service bulletin applies to certain carburetors made by Marvel-Schebler Aircraft Carburetors, LLC and to carburetors of the same model and part number manufactured by Precision Airmotive, Borg-Warner, or Marvel Schebler Company, (collectively referred to herein as “MSA carburetors”), where installed on CubCrafters CC11-160 Carbon Cub aircraft equipped with CC340 model engines.
2. **Reasons:** To notify operators of the availability of an improved fuel nozzle to provide better vaporization and distribution of the fuel/air mixture to the cylinders.
3. **Background:** In some instances, operators have reported high and/or split cylinder head temperatures (CHT) and/or high and/or split exhaust gas temperatures (EGT). A new carburetor nozzle has been developed to improve this condition.
4. **Compliance:** If you are experiencing these symptoms and your aircraft is equipped with a MSA carburetor model MA-4SPA™, part number 10-3678-32 carburetor, we recommend replacing the current fuel nozzle 47-773 with nozzle part number 47-862 or replacing the carburetor with a new or overhaul exchange MSA carburetor part number 5-6200.
5. **Material Availability:** A new nozzle and other parts necessary to effect this change are contained in MSA Kit No. 666-862. This kit, or an exchange replacement carburetor part number 5-6200, may be obtained directly from MSA.

6. **Instructions:** Remove the carburetor from the aircraft in accordance with CC11-160 Aircraft Maintenance Manual. Disassembly, nozzle and jet installation, and reassembly of the carburetor must be done in accordance with the most current edition of the MSA carburetor service manual; MSACSM. Alternatively, the carburetor can be sent to MSA for conversion and fuel flow validation. For carburetors updated in the field; after installing the new nozzle and other applicable parts, transfer the unit's serial number from the old data plate to the new data plate provided in the kit. Then remove the old data plate from the carburetor and replace it with the new data plate having the new carburetor part number, 5-6200. Mail the old data plate back to MSA. Reinstall, and rig the carburetor on the airplane in accordance with instructions in the aircraft's maintenance manual. Once the carburetor is reinstalled, verify proper operation. Make the appropriate log book entry indicating conversion of the carburetor to the new part number.

Note: The new nozzle is compatible with and may only be installed in MSA carburetors having solid blue epoxy float part number 30-864. Do NOT install the new nozzle in a carburetor equipped with a metal float or any other type float except a solid blue epoxy float. If your carburetor is not equipped with the solid blue epoxy float, part number 30-864, please comply with Marvel-Schebler<sup>®</sup> service bulletin SB-2. Additionally fuel nozzle 47-862 is NOT approved for use in carburetors manufactured, overhauled, or serviced by AVStar Fuel Systems even where the carburetor model and part number appears to be the same or is similar to the MSA carburetor designation.

7. **Safety First:** Marvel-Schebler<sup>®</sup> is a customer service oriented company committed to technical innovation in pursuit of aviation safety. While Marvel-Schebler<sup>®</sup> has no authority to compel owners to act responsibly and take prudent action to insure their own safety and the safety of others. Marvel-Schebler<sup>®</sup> believes compliance with this Service Bulletin is important and will help to insure better maintained and better performing products.